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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.	
Name of conveying party(ies):	Name and address of receiving party(ies):
Robert S. Beach	Name: International Business Machines
	Corporation
Additional name(s) of conveying party(ies) attached? ■ No □Yes	Internal Address:
3. Nature of Conveyance	Street Address: New Orchard Road
■ Assignment	
☐ Security Agreement ☐ Change of Name	City: <u>Armonk</u> State/Province: <u>New York</u> Zip: 10504
☐ Other:	Country: U.S.A.
Execution Date(s): <u>07/11/2001</u>	Additional name(s) & address(es) attached?
Application Number(s) or patent number(s): : If this document is being filed together with a new application, the execution date of the application is:	
A. Patent Application No.(s) 09/827,278	B. Patent No.(s)
Additional numbers at 5. Name and address of party to whom correspondence	ttached?
concerning document should be mailed:	6. Total number of applications and patents involved.
Robert B. O'Rourke	
Name: Blakely, Sokoloff, Taylor & Zafman LLP	7. Total Fee (37 CFR 3.41)\$40.00
Internal Address:	Enclosed
Street Address: <u>12400 Wilshire Boulevard</u> , 7 th Floor	Authorized to be charged to deposit account
City: <u>Los Angeles</u> State: <u>California</u> Zip: <u>90025</u>	8. Deposit Account Number:
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9. Statement and signature. To the best of my knowledge and believe, the foregoing is true a document Robert B. O'Rourke, Reg. No. 46,972	and correct and any attached copy is a true copy of the original $7/(2/\theta)$
Name of Person Signing Sign	nature Date

Mail documents to be recorded with required cover sheet information to:
Assistant Commissioner of Patents, Box Assignments
Washington, D.C. 20231

Atty Docket No.03594P023X

ASSIGNMENT

Whereas, I

INVENTOR AND CITY

(1) Robert S. Beach of Los Gatos County of Santa Clara and State of California

have invented certain improvements in

TITLE

SPIN VALVE SENSOR WITH AN ANTIFERROMAGNETIC LAYER BETWEEN TWO PINNED LAYERS

DATE THAT
INVENTOR
SIGNED THE
DECLARATION

and executed, respectively, a United States patent application therefor on (1) 7 - (1 - 0).

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filling of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

	Signed and sealed
CITY	(1) at <u>San Jose, California</u>
DATE	on $\frac{7-11-01}{2}$,
INVENTOR SIGNATURE	Zolan Spark
	Robert S. Beach